| <br>ex of Claim | - |
|-----------------|---|
|                 |   |

| Application/Control No | ١. |
|------------------------|----|
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10/633,237

SERGHERAERT ET AL.

Applicant(s)/Patent under Reexamination

Examiner

Art Unit

Nikki Handy

1616

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

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Restricted

Non-Elected Ν

Interference

**Appeal** Α 0 Objected

|                        | т-       |                  |          |          |          |          |  |  |              | 1            |     |        |          |              | _         |   |
|------------------------|----------|------------------|----------|----------|----------|----------|--|--|--------------|--------------|-----|--------|----------|--------------|-----------|---|
| Cla                    | aim      | ├-               |          | _        | I        | Dat      | e_   | _  | 1            | _            | 1   | Cla    | aim      | $\vdash$     | _         | 7 |
| Final                  | Original | 4/30/07          |          |          |          |          |  |  |              |              |     | Final  | Original |              |           |   |
|                        | 1        | 1                |          |          |          |          |  |  |              |              | ]   |        | 51       |              | $\vdash$  | 1 |
|                        | 2        | 1                |          |          |          |          |  |  |              |              | 1   |        | 52       | Г            | Γ         | 1 |
|                        | 3        | N                |          |          |          |          |  |  |              |              | ]   |        | 53       |              |           | I |
|                        | 4        | N                |          |          | L        | L        | <u></u>  | ┖  |              |              |     |        | 54       |              |           | I |
| <u> </u>               | 5        | N                | Ш        | <u> </u> | _        | _        | ㄴ  | 1  |              |              |     |        | 55       |              |           | 1 |
|                        | 6        | 1                | L        | <u> </u> | L        | _        |  | L  | _            |              | 1   |        | 56       | _            | _         | 1 |
| L                      | 7        | N                | _        | <u> </u> | ╙        | <u> </u> | _  | ┖  | _            | _            |     |        | 57       | <u> </u>     | _         | 1 |
| L                      | 8        | N                | <u> </u> |          | ┡        | <u> </u> | <del> </del> _                                   | ╄  | ┞            | <u> </u>     |     |        | 58       | <u> </u>     | <u> </u>  | 1 |
| <u> </u>               | 9        | N                |          |          | H        | <u> </u> | -  | ├-   | ┞            | ┡            |     |        | 59       | <u> </u>     | _         | 4 |
| ├                      | 10       | 72               | $\vdash$ | _        | ┝        | ├-       | ├-   | ⊬  | ╀            | ┝            | 1   |        | 60       | <u> </u>     | _         | 4 |
| -                      | 11       | N                | -        | _        | _        | ⊢        | ├-   | ⊢  | ├-           | ┝            |     |        | 61       | <u> </u>     | ┢         | + |
| $\vdash$               | 12<br>13 | <del>  -  </del> | Н        | $\vdash$ | -        | -        | -  | ╁  | $\vdash$     | ├-           |     |        | 62<br>63 | $\vdash$     | -         | 1 |
| $\vdash$               | 14       | -                | $\vdash$ | H        | $\vdash$ | -        | $\vdash$   | ├  | $\vdash$     | ╁            | ┨   |        | 64       | <del> </del> | $\vdash$  | ł |
|                        | 15       |                  | Н        | _        | ┢        | $\vdash$ | $\vdash$   | -  | ├            | ┢            |     |        | 65       | <u> </u>     | ⊢         | ł |
|                        | 16       | $\vdash$         |          |          | -        |          |  | -  | 1-           | $\vdash$     | 1   |        | 66       | ┢─           | ⊢         | t |
|                        | 17       | $\vdash$         | Н        |          | _        | ┢        | $\vdash$   | <del>                                     </del> | 一            | ┞            | 1 1 |        | 67       | $\vdash$     | Н         | t |
|                        | 18       |                  | Н        |          |          | Н        | <del>                                     </del> | $\vdash$   | ╁            | T            | 1 1 |        | 68       | _            | $\vdash$  | t |
|                        | 19       | $\vdash$         | Н        |          | _        |          | H  | 1  | <u> </u>     |              | 1 1 |        | 69       | $\vdash$     | _         | t |
|                        | 20       | Г                |          |          |          |          |  | ┢  | $\vdash$     | Г            |     |        | 70       |              | Т         | t |
|                        | 21       |                  |          |          |          |          |  | $\vdash$   |              | Г            |     |        | 71       |              | $\vdash$  | t |
|                        | 22       |                  |          |          |          |          |  |  |              |              | ].  |        | 72       |              |           | t |
|                        | 23       |                  |          |          |          |          |  |  |              |              |     |        | 73       |              |           | I |
|                        | 24       | Ш                |          |          |          | <u> </u> | L  | _  |              | _            |     |        | 74       |              |           | 1 |
|                        | 25       | Ш                |          |          | _        | _        | ╙  | _  | _            | L_           |     |        | 75       | _            |           | ļ |
| <u> </u>               | 26       | Н                |          |          |          | <u> </u> | L  | ــــ   |              |              |     |        | 76       | <u> </u>     |           | ļ |
|                        | 27       | $\vdash$         | -        |          | _        | ┝        |  | ⊢  | <u> </u>     | -            |     |        | 77       | <u> </u>     | _         | ļ |
|                        | 28<br>29 | Н                | -        |          | _        | <u> </u> | -  | -  | <u> </u>     | ⊢            |     |        | 78       |              | _         | ł |
| $\vdash$               | 30       | Н                | $\vdash$ |          |          |          | ⊢  | -  | ⊢            | <del> </del> |     |        | 79<br>80 |              |           | ł |
| -                      | 31       | $\vdash$         | $\dashv$ | _        | _        |          | -  | H  | ⊢            | $\vdash$     |     |        | 81       | _            | -         | ł |
|                        | 32       |                  | $\dashv$ |          |          | $\vdash$ |  | H  | ⊢            | $\vdash$     |     |        | 82       | _            |           | ł |
| $\Box$                 | 33       | H                | $\neg$   |          | -        | -        | T  | H  |              | -            |     |        | 83       |              | -         | t |
|                        | 34       | М                |          |          |          | _        |  |  | Т            | _            | l   |        | 84       |              |           | t |
|                        | 35       | П                |          |          |          | Г        |  |  | Г            |              |     |        | 85       |              | $\vdash$  | t |
|                        | 36       |                  |          |          |          |          |  |  |              |              |     |        | 86       |              | _         | t |
|                        | 37       |                  |          |          |          |          |  |  |              |              |     |        | 87       |              |           | İ |
|                        | 38       | $\Box$           |          |          |          |          |  |  |              |              |     |        | 88       |              |           | ſ |
| L                      | 39       | Щ                | [        |          |          |          |  | L  |              |              |     |        | 89       |              |           | ſ |
|                        | 40       | Щ                | _        | _        | _        |          | <u>L</u>   | <u> </u>   | <u> </u>     |              |     | ]      | 90       |              |           | L |
| <u> </u>               | 41       | $\sqcup$         | $\dashv$ |          |          |          | <u> </u>   | <u> </u>   | Ш            | L_           |     |        | 91       |              |           | L |
|                        | 42       |                  |          | $\dashv$ | _        |          | _  | <u> </u>   |              | Н            |     |        | 92       |              |           | ļ |
|                        | 43<br>44 | $\vdash \vdash$  | -        | $\dashv$ | _        |          | $\vdash$   | ├  | <b>-</b>     |              | -   |        | 93       | _            | _         | ļ |
| $\vdash \vdash \vdash$ | 45       | $\vdash$         | $\dashv$ | $\dashv$ |          |          | H  |  |              | $\vdash$     |     |        | 94<br>95 |              | _         | ŀ |
|                        | 46       | $\vdash$         | $\dashv$ | $\dashv$ | -        |          | Η.   | <del>  -</del>                                   | _            | $\vdash$     |     |        | 96       | $\dashv$     | _         | ŀ |
| <del>-  </del>         | 47       | $\vdash \vdash$  | $\dashv$ |          |          |          |  | $\vdash$   | <del> </del> | $\vdash$     | 1   |        | 97       |              |           | ŀ |
| $\vdash$               | 48       | $\vdash$         | -        | $\dashv$ | -        |          | -  |  | -            | $\vdash$     |     |        | 98       | -            |           | ŀ |
|                        | 49       | $\vdash$         | $\dashv$ | $\dashv$ | $\dashv$ |          |  | Ė  |              | Н            |     | $\neg$ | 99       | $\dashv$     |           | H |
|                        | 50       |                  |          | $\dashv$ |          |          |  | Г  |              | $\vdash$     |     |        | 100      | ᅱ            | $\exists$ | H |
|                        |          |                  |          |          |          |          | _  |  |              |              | L   | 1      |          | 1            |           | _ |

|             |          | ,        |  |              |              |  |                |                |          |              |
|-------------|----------|----------|--|--------------|--------------|--|----------------|----------------|----------|--------------|
| CI          | aim      |          |  |              |              | Dat  | e_             |                |          |              |
| Final       | Original |          |  |              |              |  |                |                |          |              |
| -           | 51<br>52 | $\vdash$ | +-   | $\vdash$     | +            | +  | $\vdash$       | $\vdash$       | +        | +            |
|             | 52       | T        | T  | $t^-$        | ✝            | T  | <del>  -</del> | ┪              | ╁┈       | ┢            |
|             | 53       | ╁        | ╁  | ╁            | ╁╌           | ╁  | ╁              | ╁              | ╁        | ⊢            |
|             | 53       | ├        | ╀  | ╀            | ┼─           | ╁  | ├              | ╁              | ╁        | ╌            |
| <b>}</b>    | 54       | ⊢        | ⊢  | ╁            | ┼-           | ╁  | ╁              | ╁              | ╁        | ⊢            |
| -           | 55       | ╀        | ╀  | ╁            | ╀            | ┼  | ╀              | ⊢              | ├-       | -            |
| -           | 56       | -        | ـــ  | ⊢            | ├-           | ╀  | L              | L              | <u> </u> | ▙            |
|             | 57       | ļ        | ┺  | <del> </del> | ┞            | ┞  | <u> </u>       | ┡              | _        | _            |
|             | 58       | ┞        | <u> </u>   | ┡            | 1            | ╄  | ↓_             | <u> </u>       | ┞        | ╙            |
|             | 59       | <u> </u> | _  | <u> </u>     | ļ            | <u> </u>   | _              | ļ              | <u> </u> | <u> </u>     |
|             | 60       | L        | _  | Ь.           | _            | _  | <u> </u>       | <u> </u>       | _        | _            |
|             | 61       | _        | ┖  | <u> </u>     | <u>_</u>     | 乚  | L              |                | L        |              |
|             | 62       | L        | <u> </u>   | ┖            |              | L  | L              |                |          | L            |
|             | 63       |          |  |              |              | <u> </u>   | Ŀ              |                |          | L            |
|             | 64       |          |  |              |              |  |                |                |          | П            |
|             | 65       |          |  |              | П            |  |                |                |          |              |
|             | 66       |          | Γ  |              |              |  |                |                |          |              |
|             | 67       |          |  |              |              |  | T              |                |          |              |
|             | 68       |          | T  | 1            | $\top$       |  |                |                |          | r            |
|             | 69       |          | <u> </u>   | T            |              | t  | 1              | 1              | 1        |              |
|             | 70       | T        |  | 1-           | T            | <del>                                     </del> | 一              | $\vdash$       | $\vdash$ | t            |
|             | 71       | T        | 1  | 1            | ┢            | T  | †              | ╁              | ┢──      | H            |
|             | 71<br>72 | $\vdash$ | 1  | t            | 1-           | $\vdash$   |                | t              | ╁╴       | H            |
|             | 73       |          | T  |              |              | T  | <u> </u>       | 1              | $\vdash$ | t            |
|             | 74       |          | 1  | ┢            | $\vdash$     | 1  |                | t              |          |              |
|             | 74<br>75 | T-       |  |              |              | ✝  | 一              | T              | <b>!</b> |              |
|             | 76       |          |  |              | $\vdash$     | $\vdash$   | T              |                | ┪        |              |
|             | 77       |          |  | i            | $\vdash$     |  |                |                |          |              |
|             | 78       | Г        | T  | _            | $\vdash$     | 1  | T              | T              |          |              |
|             | 79       | Г        | Т  |              | T            | T  | Г              | 一              | _        | Г            |
|             | 80       | _        |  | T            | $\vdash$     | t  | _              | $\vdash$       | Ι.       | <del> </del> |
|             | 81       | ┪        |  | $\vdash$     | 1            |  |                | -              |          | _            |
|             | 82       | ┢        |  | $\vdash$     | <del> </del> | ┢  | $\vdash$       | $\vdash$       | $\vdash$ | -            |
| <del></del> | 83       | $\vdash$ | <del>                                     </del> | $\vdash$     | ╁            | 一  | $\vdash$       | -              | $\vdash$ |              |
| $\vdash$    | 84       | ┢        | -  | $\vdash$     | ┢            | -  | ╁              | ┢              | $\vdash$ | -            |
| <del></del> | 85       | ⊢        | ┢  | -            | ┢            | -  | ┢              | -              | ├        | -            |
| <b></b>     | 86       |          | -  | ├            | $\vdash$     | $\vdash$   | -              | ⊢              | $\vdash$ | <del> </del> |
| 1           | 87       |          | $\vdash$   | ├            | ├            | _  | -              | ┢              | -        | ⊢            |
| 1           | 88       | _        |  | ⊢            | ├            | -  | ├              | ├              | ┝        | ├            |
| $\vdash$    | 89       | $\vdash$ | ┝  | -            | ⊢            | -  | <del> </del>   | <del> </del>   |          | ┝            |
|             | 90       |          | ┢  |              | H            | -  | -              | <del> </del>   | <u> </u> | $\vdash$     |
|             |          | $\vdash$ | <del> </del>                                     | -            | H            |  | ├-             | ⊢              | ⊢        | <u> </u>     |
|             | 91<br>92 | ├-       | _  | ┡            | -            | ⊢  |                | _              | ⊢        |              |
| -           | 93       | $\vdash$ | -  | _            | ┞            | ⊢  | ┝              | _              | <u> </u> | <u> </u>     |
| -           |          | $\vdash$ | _  |              | ⊢            | <del> </del>                                     |                | <u> </u>       | ļ        |              |
| -           | 94<br>95 | -        | <del> </del>                                     | ⊢            | -            | ⊢  | ⊢              | -              | $\vdash$ | <u> </u>     |
| -           |          | <u> </u> | <del> </del> —                                   | $\vdash$     | ├—           | -  | $\vdash$       | <del> </del>   | $\vdash$ | $\vdash$     |
| $\vdash$    | 96<br>97 | <u> </u> | <u> </u>   | $\vdash$     |              | $\vdash$   | <u> </u>       | <del> </del> - |          | <u> </u>     |
| $\vdash$    |          | -        | <del> </del>                                     |              | ├-           | $\vdash$   |                | -              | <u> </u> | <u> </u>     |
| $\vdash$    | 98<br>99 | $\vdash$ | -  | ⊢            | ├—           | $\vdash$   | $\vdash$       | <u> </u>       | $\vdash$ | $\vdash$     |
| $\vdash$    |          | $\vdash$ | H  | ├-           | ⊢            | <u> </u>   |                | H              | <u> </u> |              |
| L ·         | 100      |          | 1  | 1            | l            | ı  |                |                |          |              |

| CI       | aim   |  |  |                |  | Dat  | e  |          |  |                 |
|----------|---|--|--|----------------|--|--|--|----------|--|-----------------|
|          |   |  |  |                | Т  | T  | T  | Τ        | T  | Т               |
| <u>0</u> | Original                                      |  |  |                | 1  | 1  |  | 1        |  |                 |
| Final    | ij  | ĺ  |  |                | 1  |  | ĺ  |          |  | ĺ               |
| _        | 0   | l  |  |                |  |  |  | 1        |  |                 |
|          | 101   | $\vdash$   | H  |                | $\vdash$   | <del> </del>                                     | $\vdash$   | t        | $\vdash$   |                 |
|          | 101<br>102                                    | 1  |  | $\vdash$       | $\vdash$   | 1  | +-   | ╁        | 十  | 1               |
|          | 103   | H  | $\vdash$   | 1              | $\vdash$   | 1  | $\vdash$   | ╁╌       | ╁  | H               |
|          | 104   | <del>                                     </del> | $\vdash$   | ┢              | 1  | $\vdash$   | ╁  | $\vdash$ | +-   | $\vdash$        |
|          | 104<br>105                                    |  | $\vdash$   | H              | +-   | ┼┈   | 1  | $\vdash$ | T  | <u> </u>        |
|          | 1 106   | $\vdash$   | $\vdash$   | <del> </del>   | t  | ╁  | $\vdash$   | $\vdash$ | 十  | ╁               |
|          | 107   | <del>                                     </del> | ┪  | $\vdash$       | t  | ╫  | 1  | ┢        |  | $\vdash$        |
|          | 108   |  | <del>                                     </del> | t              | $\vdash$   | ╁╌   | <del>                                     </del> | ┢        | t  | $\vdash$        |
|          | 107<br>108<br>109                             |  | -  | 1              | $\vdash$   | $\vdash$   | +-   | -        | $\vdash$   |                 |
|          | 110   |  |  |                | 1-   | 1  | T  | $\vdash$ | <del> </del>                                     | Н               |
|          | 110<br>111<br>112                             | $\vdash$   | Г  | t              | T  | t  | T  | $\vdash$ | <del>                                     </del> | Н               |
|          | 112   | $\vdash$   | $\vdash$   | Н              | $\vdash$   | t  | T  | 1        | 1  | Н               |
|          | 113   |  | $\vdash$   | Т              | <del>                                     </del> | <del>                                     </del> | T  | $\vdash$ | t  | H               |
|          | 113<br>114<br>115                             | $\vdash$   | ┢  | t              | _  | $t^{-}$  | <del>                                     </del> | $\vdash$ | $\vdash$   | $\vdash$        |
|          | 115   | <del> </del>                                     | $\vdash$   | $\vdash$       | 1-   | $\vdash$   | <del>                                     </del> | $\vdash$ | $\vdash$   | Н               |
|          | 116   | $\vdash$   | $\vdash$   | $\vdash$       | ┢  | ╁  | <del>                                     </del> | $\vdash$ | ╫  | Н               |
|          | 116<br>117                                    | $\vdash$   | $\vdash$   | $\vdash$       | <del>                                     </del> | <del>                                     </del> | t  | Н        | +  | ╁┈┤             |
|          | 118   | $\vdash$   |  | ╁              | ┢  | $\vdash$   | ╁  | ╌        | $\vdash$   | ╁╌              |
|          | 118<br>119                                    | <u> </u>   | -  | ├              | ┢  | ┢  | ⊢  | ╁─       | ╁  | $\vdash$        |
|          | 120   | H  |  | ⊢              | $\vdash$   | ⊢  | ├—   | ⊢        | ├-   | ⊢               |
|          | 120<br>121<br>122<br>123<br>124<br>125<br>126 |  | _  | -              | -  | ├  | ├  | ├        | ╁  | Н               |
|          | 122   | $\vdash$   | -  | <del> </del> — | ┢  | -  | ├—   | ├        | -  | H               |
|          | 122   | _  | $\vdash$   | ┝              | ├-   | -  | ┢  | ⊢        | ├  | Н               |
|          | 123   |  | -  | <del> </del>   | ┝  | ╌  | ⊢  | -        | ├  | Н               |
|          | 125   |  | -  | ┝              | ╁  | ├  | ╁  | ┢        | ┢┈   | Н               |
|          | 126   | -  | _  | $\vdash$       | ├  | ╌  | ⊢  | H        | ├-   | Н               |
|          | 120   | _  | _  | $\vdash$       | ╁  | $\vdash$   | $\vdash$   |          | ├  | Н               |
|          | 127<br>128<br>129                             |  | -  | ┝              | ╁  | $\vdash$   | ╌  | ┢        | ├  | ╁╌┤             |
|          | 120   |  |  | -              | -  | ╌  | $\vdash$   | $\vdash$ | ╁  | H               |
|          | 120   |  |  | ├              | ┢  | ⊢  | ├  | ⊢        | ⊢  | Н               |
|          | 131   | -  | ⊢  | ⊢              | ├  | ⊢  | ├—   | -        | ├  | Н               |
|          | 130<br>131<br>132                             | -  |  | -              | $\vdash$   | 1—   | $\vdash$   | -        | ⊢  | Н               |
|          | 132   | -  | —  | $\vdash$       | ╁  | $\vdash$   | -  | -        | ╌  | $\vdash$        |
|          | 133<br>134                                    | -  | _  | $\vdash$       | -  | -  | -  | $\vdash$ | H  | $\vdash$        |
|          | 135   | $\vdash$   |  | $\vdash$       | -  | ├  | $\vdash$   | -        | 1  | Н               |
|          | 135<br>136                                    | -  |  | <del> </del>   | -  | $\vdash$   | ├-   | $\vdash$ | $\vdash$   | $\vdash \vdash$ |
|          | 137   | $\vdash$   | -  | $\vdash$       | $\vdash$   | 1  | $\vdash$   | $\vdash$ | $\vdash$   | Н               |
|          | 139   | Н  | _  | ⊢              | $\vdash$   | <del> </del>                                     | $\vdash$   | $\vdash$ | <del> </del>                                     | $\vdash \vdash$ |
|          | 138<br>139                                    | $\vdash$   |  | ⊢              | $\vdash$   | ⊢  | $\vdash$   | -        | -  | Н               |
|          | 140   | -  | _  |                | $\vdash$   | $\vdash$   | <del> </del>                                     | <u> </u> | ⊢  | $\vdash \vdash$ |
|          | 141   |  |  | _              | $\vdash$   | <del> </del>                                     | $\vdash$   | -        | -  | Н               |
|          |   | -  | _  | <u> </u>       | $\vdash$   | ├-   | ⊢  | $\vdash$ | $\vdash$   | $\vdash \vdash$ |
|          | 142<br>143                                    | -  | _  |                | -  | $\vdash$   | ├-   | <u> </u> | $\vdash$   | $\vdash$        |
|          | 144   | -1   | _  | -              | -  | $\vdash$   |  | -        |  | Н               |
|          | 144   | $\dashv$   |  | -              |  |  | <del> </del>                                     | $\vdash$ | ├—   | Н               |
|          | 145   |  |  | _              |  | $\vdash$   | <u> </u>   | -        | $\vdash$   | Н               |
|          | 146   | -  | _  | -              | -  | <del> </del>                                     | -  | $\vdash$ |  | Щ               |
|          | 147   |  | _  |                | <u> </u>   |  | $\vdash$   | ш        | $\vdash$   | Н               |
|          | 149   | -  | $\dashv$   |                | <del>  -</del>                                   |  | <u> </u>   | -        | H  | Н               |
|          |   | -  | -  |                | <u> </u>   |  | $\vdash$   |          | $\vdash$   | Ш               |
|          | 150   |  |  |                | L  | L  |  |          |  | ш               |